### **REMARKS**

The Final Office Action mailed March 24, 2005, has been received and reviewed. Claims 1-20 are currently pending in the application. Claims 9-20 have been withdrawn from consideration as being drawn to a non-elected invention. Claims 1-8 stand rejected. Applicants respectfully request reconsideration of the application.

### 35 U.S.C. § 103(a) Obviousness Rejections

Obviousness Rejection Based on U.S. Patent Application Publication No. US 2003/0186003 A1 to Nakano et al.

Claims 1-8 stand rejected under 35 U.S.C. § 103(a) as assertedly being unpatentable over Nakano et al. (U.S. Patent Application Publication No. US 2003/0186003 A1). Applicants respectfully traverse this rejection, as hereinafter set forth.

Obviousness Rejection Based on U.S. Patent Application Publication No. US 2003/0186003 A1 to Nakano et al. and Further in View of U.S. Patent No. 6,780,924 to Shih et al. or Applicants' Admissions at Paragraph [0014] of the Specification

Claims 1, 3 and 4 stand rejected under 35 U.S.C. § 103(a) as assertedly being unpatentable over Nakano et al. (U.S. Patent Application Publication No. US 2003/0186003 A1), as applied to claims 1, 3 and 4 above, and further in view of Shih et al. (U.S. Patent No. 6,780,924) or Applicants' admissions at paragraph [0014] of the specification for reasons of record and given below. Applicants respectfully traverse this rejection, as hereinafter set forth.

Obviousness Rejection Based on U.S. Patent Application Publication No. US 2003/0186003 A1 to Nakano et al. and Further in View of U.S. Patent Application Publication No. US 2001/0004487 A1

Claims 1-8 stand rejected under 35 U.S.C. § 103(a) as assertedly being unpatentable over Nakano et al. (U.S. Patent Application Publication No. US 2003/0186003 A1), as applied to claims 1-8 above, and further in view of Kaneko et al. (U.S. Patent Application Publication No. US 2001/0004487 A1). Applicants respectfully traverse this rejection, as hereinafter set forth.

Submitted herewith is Declaration under 37 C.F.R. § 1.131 evidencing conception and/or reduction to practice of the subject matter of claims 1-8 before the filing date of the Nakano et al. reference. Thus, the 35 U.S.C. § 103(a) obviousness rejections of claims 1-8 are improper because without the Nakano et al. reference, the cited references do not teach or suggest each and every element of any of claims 1-8.

Reconsideration and withdrawal of the obviousness rejections of claims 1-8 are requested.

### **CONCLUSION**

Claims 1-8 are believed to be in condition for allowance, and an early notice thereof is respectfully solicited. Should the Examiner determine that additional issues remain which might be resolved by a telephone conference, he is respectfully invited to contact Applicants' undersigned attorney.

Respectfully submitted,

Edgar R. Cataxinos Registration No. 39,931 Attorney for Applicants

TRASKBRITT, PC

P.O. Box 2550

Salt Lake City, Utah 84110-2550

Telephone: 801-532-1922

Date: June 23, 2005

ERC/ps:jm
Document in ProLaw



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

th te Application of	•
Chen et al.	
Serial No.: 10/613,495	NOTICE OF EXPRESS MAILING
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Confirmation No.: 4418	
Examiner: P. Schwartz	
Group Art Unit: 1774	
Attorney Docket No.: 2858.01-5607US	•

### DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The undersigned, Tienteh Chen, Richard J. McManus, Tony Pidding, and Barbara Walezak, each declares and states:

- 1. I am an inventor or co-inventor of the invention described in one or more of the claims of U.S. Patent Application 10/613,495.
- 2. I am informed and believe that a communication from the U.S. Patent Office was mailed on or about March 24, 2005, regarding the above-referenced application. I am informed and believe that claims I-8 were rejected under 35 U.S.C. 103 as assertedly being obvious over Nakano et al., U.S. Patent Application Publication US2003/0186003 A1, filed March 31, 2003, in combination with other references.

Serial No. 10/613,495

- We conceived and/or reduced to practice the subject matter of claims 1-8 of U.S. 3. Patent Application 10/613,495 in a NAFTA or WTO member country before the filing date of the Nakano et al. reference, i.e., before March 31, 2003.
- To show conception and/or reduction to practice of the subject matter of claims 1-4. 8 of U.S. Patent Application 10/613,495 before March 31, 2003, attached hereto as Exhibit A is a copy of an invention disclosure (redacted for dates) and Exhibit B, a graph evidencing reduction to practice before the filing date (March 31, 2003) of the Nakano et al. reference.
- The invention disclosure indicates that the invention includes an "ink receiving layer on a commercial off set and cast coated paper." (Exhibit A, page 2). The invention disclosure further discloses that the ink receiving layer is present at 3-5 GSM (i.e., grams per square meter). (See, Id.) Exhibit B discloses the use of Zanders supergloss base paper (cast coated) in the print medium, wherein the Zanders supergloss base paper possesses the Sheffield smoothness and porosity characteristics of claim 1. (See, Exhibit B and as-filed Specification, paragraph [0024], Table 1 indicating the Sheffield smoothness and porosity characteristics of the Zanders supergloss base paper).
- Accordingly, Exhibits A and B demonstrate possession and/or reduction to 5. practice of the elements of claims 1-8 before the filing date of the Nakano et al. reference.
- I hereby declare that all statements are made on my own knowledge, are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both under § 1001 of Title 18 of the Unites States Code. and that such willful statements may jeopardize the validity of the application or any patent issues therefrom.

Tienteh Chen

Kichard J. Mc Manus

until chu

6/6/2005Date 5/27/05

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Date

5/27/05

Date

Document in Probaw

Barbara Walczak

p.5

Jun 06 05 08:12a

Serial No. 10/613,495

## EXHIBIT A

-4-



## Disclosure No.

Invention Disclosure - DBi Document No. 6190

PD No.

**Date Received** 

Collection **IPG** 

The information contained in this document is HP CONFIDENTIAL and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government.

## **General Information**

Title Inkjet Recording Materials with High Image Quality and Performace

Abstract This invention describes the composition and construction of a inkjet recording

materials. The inkjet recording materials of this invention has superior color gamut,

Kod, humid bleed and humid fastness.

**Projects** Vegas

**Products** Everyday Photo Glossy Paper

### **Attachments**

**Attachments** 

Vegas\_2\_Trial\_Formulations.xls for Zanders (Uploaded by Tienteh Chen) - four scale-up formulations

barbara.walczak@hp.com

**United States [US]** 

vegas data xis by Tienteh Chen). Vegas Weekly Photoscreening (Uploaded)

## Inventor Information

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11754 Westview Pkwy. # 10 San Diego, CA 92126

**United States [US]** 

## **Description of Invention**

### Problems Solved 1. color gamma

- 2. Kod
- 3. light fastness
- 4. humid bleed
- 5. humid color shift

- Prior Solutions 1. use photo based paper instead of paper based paper
  - 2. high coatweight (>25 GSM) on photo based paper to absorb ink vehicle
  - 3. multipayer coatings to seperate dye from ink vehicle and to improve coalescence
  - 4. using mixtures of different water soluble polymers to achieve necessary IQ, et.al

Description The heart of this invention is the combination of very thin layer of polymeric or swellable ink receiving layer on a commerical off set and cast coated paper. Neither the composition nor the paper base used in this invention is new but the combination is novel. The main components of the ink receiving layer are (1) mixtures of two polyvinyl alcohols with 80 to 88% hydrolysis for optimum coalescence (2) boric acid as crosslinker to improve wet smudge and dry to touch(3) polysiloxane-polyethyleneoxide surfactant (Trade name Silwet) to reduce haze and mottle problem and (4) aluminum salts (aluminum chloride, aluminum formate) or poly(DADMAC) as mordants (5) cationic superfine colloidal silica (e.g. Ludox CL) to enhance Kod. The paper base used in this invention are coated paper (calendered or uncalendered) or cast coated paper.

Advantages Advantages of this invention are:

- 1) much lower coatweight than the high quality inkjet paper based on resin coated paper (swellable or porous). Usually 3-5 GSM is enough.
- 2) single layer coating
- 3) color gamut is superior to any other swellable or porous inkjet paper
- 4) black density (Kod) is higher than other swellabe or porous inkjet paper
- 5) humid bleed and humid color shift are much better than media based on photo based paper
- 6) light fastness is comparable to the media cost much higher

## **Invention History**

**Published** No

The name of this program is "Vegas". This product intended to replace Announced No -Metro and would be named "the Glossy Everyday Photo Paper". The product plan to be released

Disclosed No

Next Three Months Yes

Described Yes - Descrsibed in notebook 2645-187 and 188

evaluation of formulations for Vegas project.

First described the

Built Yes -

Government No Contract

Related Disclosure No

Innovation No. Workshop

Witnesses |

### Witnesses

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Americas (111N-3131)	
julio_c_alonso@hp.com	+1 (858) 655-3893
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Americas (11AU-5627)	
eric_burch@hp.com	+1 (858) 655-5462

## Classification

Classification

Recommended IPG: Marking Materials/Media

Legal Techword

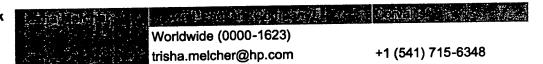
media coatings - non-porous - -

Keywords inkjet media, swellable media, everyday photo paper, color gamut, polyvinylalcohol, aluminum formate, aluminum triformate, ludox CL, high gloss and Silwet surfactant

## Administrative Record

### **Date Submitted**

Legal Clerk



**PD Number** 

**Date Received by** Legal

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Ludox CL
Silwet L-7210
Pluronic 25R4

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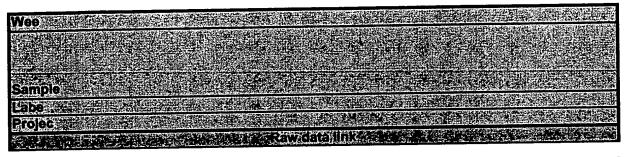
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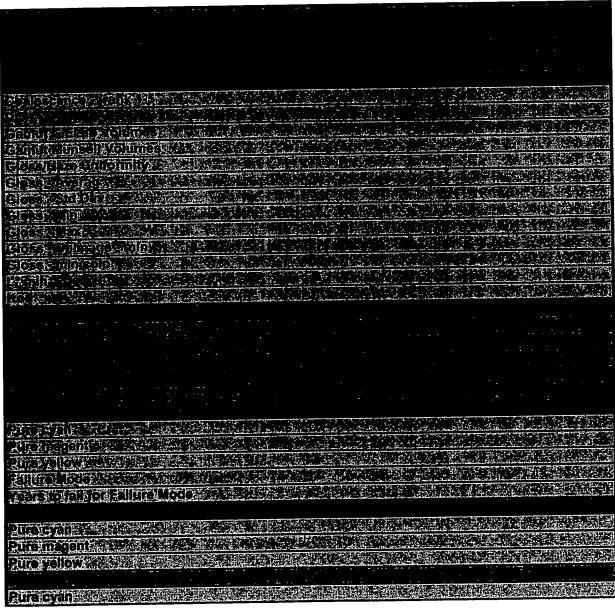
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# **Photo Screening Dashboard**

**Thom Brown** 

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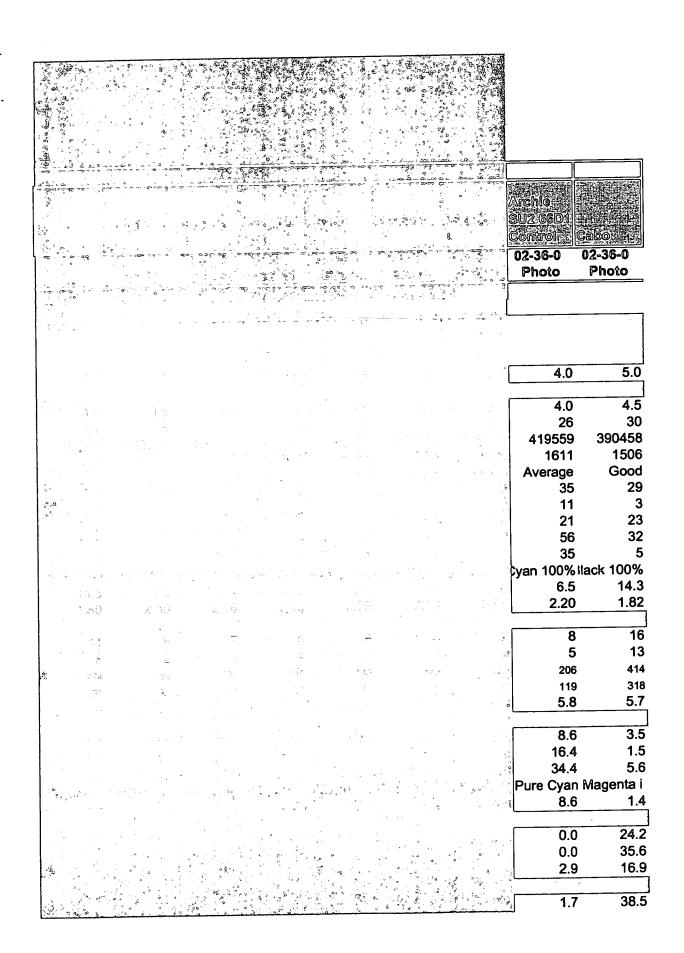
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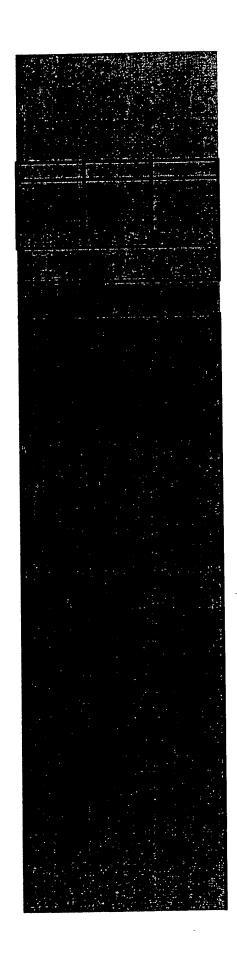
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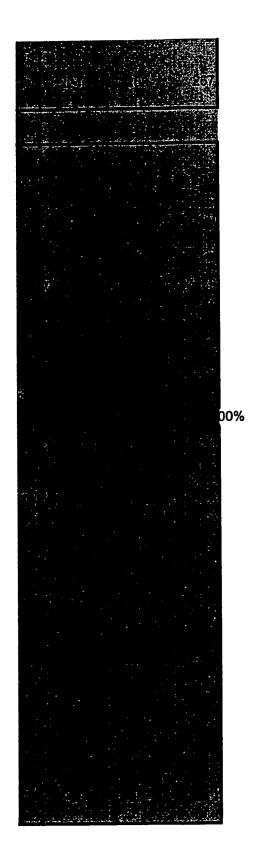


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142	114	79	79 <b>3.3</b>			
4.6	4.9	4.3	ა.ა	7.2	7.2	
8.6	59.5	113.2	38.4	1000.0	1000.0	
10.6	32.4	41.4				
6.4	43.5	52.5				
Pure Yello	Neutral Dh				D(B) in Dm	
6.4	12.4		7.4	12.3	13.6	
34.0	12.8	2.1	2.7			
45.2	12.1	3.0				
16.2	1.4	2.0	3.1	4.4	3.9	
	=			~ ~	0.5	
48.6	15.8					
67.7	14.5					
23.8	2.1	2.8				
50	203				123 2.	
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Serial No. 10/613,495

## **EXHIBIT B**

Chemical	GT2655-105	GT2655-107	
Mowiol 8-88	60	60	
Mowiol 15-79	40	40	
Agefloc CF 50-P	2	2	
Boric Acid	0.5	0.5	
Ludox CL	10	10	
Silwet L-7605	0.50%		
Plusonic 25P4		0.50%	

Pluronic 25R4 5.5 GSM

4 sheets each heat gun dry

Base Paper I.D.			
1	coated	Ikono Gioss 150	Invention
2	coated	Mega Matt 150	Invention
3	cast coated	Zanders supergloss base paper (cast coated)	Invention
4	photo base	6 mil gel subbed photo paper	Comparison
5	photo base	9 mil gel subbed photo paper	Comparison
6	uncoated	RX-700	Comparison
7	uncoated	Hammermiil Color Copy	Comparison
8	uncoated	Classical Crest	Comparison
9	uncoated	HP Multipurpose	Comparison

Sample .	GT2655-105-1	I Saff all Manuskille Walle.	GT2655- 105-3	GT2655- 105-4	GT2655- 105-5	GT2655- 105-6	GT2655- 105-7	The work of the same of the sa	GT2655- 105-9
Interes Circliffy		284750397.46742		ACCURAGE.	PAPERTE LATER	<b>以外</b> 图》:	20 m 20 m 20 m	人类类别社	130.5 7,75.4
Gamut CIELab Volumes	401554	435791	449151	426661	414356	301480	304655	307576	272926
Gloss/Haze Uniformity	Average	Good	Good	Poor	Poor	Average	Average	Average	Average
Gloss - Average	16	6	47	25	36	T 1	1	1	1
Kod	2.1	2.5	2.6	2.4	2.1	1.6	1.5	1.6	1.5
Permanence				Sec. 19.27		9.00			
Humid Bleed (mile) worst color	6.9	7	10.6	33.4	33.9	5.1	4.9	5	4.8
Humid Bleed (mils) k halo	4	4.1	6.8	18.2	18.1	3.6	3.3	3.7	3.2
Humle Color Shift - (AE94) avg 10 grays	4.7	4.4	5.5	6.1	6.1	3.0	3.1	3.0	3.0

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Sample	GT2655-107-1	GT2655-107-2	GT2655- 107-3	GT2655- 107-4	GT2655- 107-5	GT2655- 107-6	GT2655- 107-7	GT2655- 107-8	GT2655- 107-9
Image Quality									L
Gamut CIELab Volumes	442451	443591	448817	440748	433160	357802	319081	305201	133823
Gloss/Haze Uniformity	Average	Good	Average	Poor	Poor	Average	Average	Average	Average
Gloss - Average	17	7	49	37	39	1	1	1	1
Kod .	2.4	2.5	2.6	2.4	2.4	1.8	1.6	1.6	1.0
Permanence						l			
Humid Bleed (mils) worst color	6.4	6.5	10.1	31	31.4	5	5.5	5.1	5
Humid Bleed (mils) k halo	4.2	4.1	7.1	21.6	20.7	4	4.3	4	4.3
Humid Color Shift - (AE94) avg 10 grave	3.8	3.3	4.0	5.3	5.2	2.8	3.3	3.1	6.2

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